## IN THE CLAIMS:

Claim 1. (Currently amended) A method for measuring relative position of fixed or slow-moving points in close proximity comprising:

receiving a first set of satellite signals with a first receiver corresponding to a first position;

receiving a <u>second</u> related-set of satellite signals with a second receiver corresponding to a second position;

acquiring said first set of satellite signals and said second set of satellite signals at a substantially simultaneous instant of time;

computing a position of said second position, based on at least one of code phase and carrier phase differencing techniques wherein at least one of:

a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

said first receiver and said second receiver share a common clock.

Claim 2. (Currently amended) The method of Claim 1 further including:

receiving a third set of satellite signals with said slave receiver from an antenna corresponding to a third position;

acquiring said first set of satellite signals and said third set of satellite signals at a substantially signal aneous instant of time; and

computing a position of said third position, based on at least one of code phase and carrier phase differencing techniques wherein at least one of:

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a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

said first receiver and said second receiver shure a common clock.

Claim 3. (Currently amended) The method of Claim 2 further including switching from said related second set of satellite signals to said third set of satellite signals.

Claim 4. (Original) The method of Claim 1 wherein said carrier phase differencing include Real Time Kinematic (RTK) solutions.

Claim 5. (Original) The method of Claim 1 wherein said first receiver and said second receiver are positioned within sufficient proximity to facilitate wired communication between said first receiver and said second receiver.

Claim 6. (Currently amended) The method of Claim 1 further including combining satellite signals from at least two of said first antenna said second antenna, said third antenna, and another antenna to form at least one of said first set of satellite signals and said related-second set of satellite signals, said at least two of said first antenna said second antenna, said third antenna, and another antenna exhibiting a known relative geometry.

Claim 7. (Currently amended) The method of Claim 1 wherein said receiving a related second set of satellite signals occurs at a time selected by said first receiver, said time selected to achieve receiving an optimal set of satellite signals available based on satellite geometry.

Claim 8. (Original) The method of Claim 1 further including configuring said first receiver as a master and said second receiver as a slave.

Claim 9. (Currently amended) A system for measuring relative position of fixed or slow-moving points in close proximity comprising:

a first receiver in operable communication with a first antenna configured to receive a first plurality of satellite signals at a first position;

a second receiver in operable communication with a second antenna configured to receive a second plurality of satellite signals at a second position;

acquiring said first plurality of satellite signals and said second plurality of satellite signals at a substantially simultaneous instant of time;

at least one of said first receiver and said second receiver computing a position corresponding to a position of said second antenna, based on at least one of said phase and carrier phase differencing techniques wherein at least one of:

a clock used in said-first receiver and a clock used in said-second receiver are synchronized to oliminate clock-variation-between said first receiver and said second receiver, and

said first-receiver and said second-receiver share a common clock.

Claim 10. (Currently amended) The system of Claim 9 further including:

a third antenna configured to receive a third set-plurality of satellite signals at a third position; and

at least one of said first receiver and said second receiver computing a position of said third position, based on at least one of code phase and carrier phase differencing techniques wherein at least one of:

a clock used in said first receiver and a clock used in said-second receiver are synchronized to eliminate clock-variation-between said first receiver and said second-receiver, and

said first receiver and said second receiver share a common clock-

Claim 11. (Currently amended) The system of Claim 9 further including a switching device in operable communication with said second receiver configured to facilitate switching from said second setplurality of satellite signals to said third setplurality of satellite signals.

Claim 12. (Original) The system of Claim 9 wherein said carrier phase differencing include Real Time Kinematic (RTK) solutions.

Claim 13. (Original) The system of Claim 9 wherein said first receiver and said second receiver are positioned within sufficient proximity to facilitate wired communication between said first receiver and said second receiver.

Claim 14. (Currently amended) The system of Claim 9 further including combining satellite signals from at least two of said first antenna said second antenna, said third antenna, and another antenna to form at least one of said set<u>first plurality</u> of satellite signals and said related second plurality-set of satellite signals, said at least two of said first antenna said second antenna, said third antenna, and another antenna exhibiting a known relative geometry.

Claim 15. (Currently amended) The system of Claim 9 wherein said related setsecond plurality of satellite signals is received at a time selected by said first receiver, said time selected to achieve receiving an optimal set of satellite signals available based on satellite geometry.

Claim 16. (Original) The system of Claim 9 wherein said first receiver is a master and said second receiver is a slave.

Claim 17. (Currently amended) A system for measuring relative position of fixed or slow-moving points in close proximity comprising:

a means for receiving a set of satellite signals with a first receiver corresponding to a first position;

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a means for receiving a related set of satellite signals with a second receiver corresponding to a second position;

a means for acquiring said first set of satellite signals and said second sot of satellite signals at a substantially simultaneous instant of time;

a means for computing a position of said second position, based on at least one of code phase and carrier phase differencing techniques wherein at least one of

a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock-variation between said first receiver and said-second receiver, and

said first receiver and said-second receiver share a common clock.

Claim 18. (Currently amended) A storage medium encoded with a machine-readable computer program code, the code including instructions for causing a computer to implement a method for measuring relative position of fixed or slow-moving points in close proximity, the method comprising:

receiving a set of satellite signals with a first receiver corresponding to a first position;

receiving a related set of satellite signals with a second receiver corresponding to a second position;

acquiring said first set of satellite signals and said second set of satellite signals at a substantially simultaneous instant of time;

computing a position of said second position, based on at least one of code

phase and currier phase differensing techniques wherein at least one of:

a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

suid-first receiver and said second receiver-share a common clock.

Claim 19. (Currently amended) A computer data signal, the computer data signal comprising code configured to cause a processor to implement a method for measuring relative position of fixed or slow-moving points in close proximity, the method comprising:

receiving a set of satellite signals with a first receiver corresponding to a first position;

receiving a related set of satellite signals with a second receiver corresponding to a second position;

acquiring said first set of satellite signals and said second set of satellite signals at a substantially simultaneous instant of time:

computing a position of said second position based on at least one of code

phase and carrier phase differencing techniques wherein at least one of:

a clock used in said first receiver and a clock-used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

said-first receiver and said second receiver share a common clock.

Claim 20. (New) The method of Claim 1 wherein said computing is based on at least one of code phase and carrier phase differencing techniques.

Claim 21. (New) The method of Claim 2 wherein said computing is based on at least one of code phase and carrier phase differencing techniques.

Claim 22. (New) The method of Claim 2 wherein at least one of:

a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

said first receiver and said second receiver share a common clock.

Claim 23. (New) The method of Claim 1 wherein at least one of:

a clock used in said first receiver and a clock used in said second receiver are synchronized to climinate clock variation between said first receiver and said second receiver, and

said first receiver and said second receiver share a common clock.

Claim 24. (New) The method of Claim 1 wherein said a first set of satellite signals and said second set of satellite signals are each from comparable satellites respectively.

Claim 25. (New) The system of Claim 9 wherein said computing is based on at least one of code phase and carrier phase differencing techniques.

Claim 26. (New) The system of Claim 9 wherein at least one of:

a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

said first receiver and said second receiver share a common clock.

Claim 27. (New) The system of Claim 9 wherein said computing is based on at least one of code phase and carrier phase differencing techniques.

Claim 28. (New) The system of Claim 9 wherein at least one of:

a clock used in said first receiver and a clock used in said second receiver are synchronized to eliminate clock variation between said first receiver and said second receiver, and

said first receiver and said second receiver share a common clock.

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Claim 29. (New) The method of Claim 1 wherein said a first plurality of satellite signals and said second plurality of satellite signals are each from comparable satellites respectively.

Claim 30. (New) A method for acquiring time coherent satellite information comprising:

receiving a first plurality of satellite signals with a first receiver;

receiving a second plurality of satellite signals with a second receiver; and

acquiring data from said first plurality of satellite signals and said second

plurality of satellite signals at a substantially simultaneous instant of time.